

March 31, 2017

David Pluhar  
Civil & Environmental Consultants  
4848 Park 370 Blvd.  
Suite F  
Hazelwood, MO 63042  
TEL: (314) 656-4566  
FAX: (314) 656-4595



**RE:** Huster Road 120-678

**WorkOrder:** 17031648

Dear David Pluhar:

TEKLAB, INC received 6 samples on 3/27/2017 12:41:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin  
Project Manager  
(618)344-1004 ex 16  
[MAustin@teklabinc.com](mailto:MAustin@teklabinc.com)

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

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## Definitions

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

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### Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surrogate Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU )

### Qualifiers

- |  |   |
|--|---|
| # - Unknown hydrocarbon                                      | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range                           | H - Holding times exceeded                      |
| I - Associated internal standard was outside method criteria | J - Analyte detected below quantitation limits  |
| M - Manual Integration used to determine area response       | ND - Not Detected at the Reporting Limit        |
| R - RPD outside accepted recovery limits                     | S - Spike Recovery outside recovery limits      |
| T - TIC(Tentatively identified compound)                     | X - Value exceeds Maximum Contaminant Level     |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Cooler Receipt Temp:** 15.02 °C

### Locations and Accreditations

	<b>Collinsville</b>	<b>Springfield</b>	<b>Kansas City</b>	<b>Collinsville Air</b>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	KNelson@teklabinc.com	EHurley@teklabinc.com

<b>State</b>	<b>Dept</b>	<b>Cert #</b>	<b>NELAP</b>	<b>Exp Date</b>	<b>Lab</b>
Illinois	IEPA	100226	NELAP	1/31/2018	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2017	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2017	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2017	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2017	Collinsville
Arkansas	ADEQ	88-0966		3/14/2018	Collinsville
Illinois	IDPH	17584		5/31/2017	Collinsville
Indiana	ISDH	C-IL-06		1/31/2018	Collinsville
Kentucky	KDEP	98006		12/31/2017	Collinsville
Kentucky	UST	0073		1/31/2018	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Missouri	MDNR	930		1/31/2018	Collinsville
Oklahoma	ODEQ	9978		8/31/2017	Collinsville

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:31	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 16:31	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:31	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 16:31	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:31	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:31	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 16:31	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 16:31	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 16:31	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 16:31	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 16:31	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 16:31	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 16:31	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 16:31	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 16:31	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 16:31	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 16:31	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 16:31	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 16:31	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:31	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:31	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 16:31	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		99.7	%REC	1	03/28/2017 16:31	128603
Surr: 4-Bromofluorobenzene		83.9-115		98.4	%REC	1	03/28/2017 16:31	128603
Surr: Dibromofluoromethane		84.9-113		98.0	%REC	1	03/28/2017 16:31	128603
Surr: Toluene-d8		86.7-112		104.8	%REC	1	03/28/2017 16:31	128603

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:57	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 16:57	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:57	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 16:57	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:57	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 16:57	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 16:57	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 16:57	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 16:57	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 16:57	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 16:57	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 16:57	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 16:57	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 16:57	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 16:57	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 16:57	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 16:57	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 16:57	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 16:57	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 16:57	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 16:57	128603

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 16:57	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		101.3	%REC	1	03/28/2017 16:57	128603
Surr: 4-Bromofluorobenzene		83.9-115		99.7	%REC	1	03/28/2017 16:57	128603
Surr: Dibromofluoromethane		84.9-113		99.9	%REC	1	03/28/2017 16:57	128603
Surr: Toluene-d8		86.7-112		101.6	%REC	1	03/28/2017 16:57	128603

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:23	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 17:23	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:23	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 17:23	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:23	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:23	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 17:23	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 17:23	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 17:23	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:35

<b>Analyses</b>	<b>Certification</b>	<b>RL</b>	<b>Qual</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 17:23	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 17:23	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 17:23	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 17:23	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 17:23	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 17:23	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 17:23	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 17:23	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 17:23	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 17:23	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:23	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:23	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 17:23	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		100.0	%REC	1	03/28/2017 17:23	128603
Surr: 4-Bromofluorobenzene		83.9-115		101.0	%REC	1	03/28/2017 17:23	128603
Surr: Dibromofluoromethane		84.9-113		96.7	%REC	1	03/28/2017 17:23	128603
Surr: Toluene-d8		86.7-112		104.8	%REC	1	03/28/2017 17:23	128603

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:49	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 17:49	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:49	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 17:49	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:49	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 17:49	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 17:49	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 17:49	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 17:49	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 17:49	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 17:49	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 17:49	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 17:49	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 17:49	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 17:49	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 17:49	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 17:49	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 17:49	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 17:49	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 17:49	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 17:49	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 17:49	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		99.5	%REC	1	03/28/2017 17:49	128603
Surr: 4-Bromofluorobenzene		83.9-115		100.6	%REC	1	03/28/2017 17:49	128603
Surr: Dibromofluoromethane		84.9-113		96.8	%REC	1	03/28/2017 17:49	128603
Surr: Toluene-d8		86.7-112		105.8	%REC	1	03/28/2017 17:49	128603

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-005

**Client Sample ID:** CW 5 Dup

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:16	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 18:16	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:16	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 18:16	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:16	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:16	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 18:16	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 18:16	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 18:16	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 17031648  
**Report Date:** 31-Mar-17

**Lab ID:** 17031648-005

**Client Sample ID:** CW 5 Dup

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 18:16	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 18:16	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 18:16	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 18:16	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 18:16	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 18:16	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 18:16	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 18:16	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 18:16	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 18:16	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:16	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:16	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-005

**Client Sample ID:** CW 5 Dup

**Matrix:** GROUNDWATER

**Collection Date:** 03/27/2017 9:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 18:16	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		104.5	%REC	1	03/28/2017 18:16	128603
Surr: 4-Bromofluorobenzene		83.9-115		100.6	%REC	1	03/28/2017 18:16	128603
Surr: Dibromofluoromethane		84.9-113		100.1	%REC	1	03/28/2017 18:16	128603
Surr: Toluene-d8		86.7-112		104.9	%REC	1	03/28/2017 18:16	128603

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-006

**Client Sample ID:** Trip Blank

**Matrix:** TRIP BLANK

**Collection Date:** 03/27/2017 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
2-Butanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:42	128603
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	03/28/2017 18:42	128603
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
2-Hexanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:42	128603
2-Nitropropane	NELAP	50.0		ND	µg/L	1	03/28/2017 18:42	128603
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:42	128603
Acetone	NELAP	25.0		ND	µg/L	1	03/28/2017 18:42	128603
Acetonitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 18:42	128603
Acrolein	NELAP	100		ND	µg/L	1	03/28/2017 18:42	128603
Acrylonitrile	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Allyl chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Benzene	NELAP	2.0		ND	µg/L	1	03/28/2017 18:42	128603
Bromobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Bromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Bromoform	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Bromomethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Carbon disulfide	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Chlorobenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Chloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-006

**Client Sample ID:** Trip Blank

**Matrix:** TRIP BLANK

**Collection Date:** 03/27/2017 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Chloromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Chloroprene	NELAP	20.0		ND	µg/L	1	03/28/2017 18:42	128603
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Cyclohexanone		50.0		ND	µg/L	1	03/28/2017 18:42	128603
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Dibromomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Ethyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Ethyl ether	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Ethylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Hexachloroethane	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Iodomethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	03/28/2017 18:42	128603
Methylacrylate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Methylene chloride	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Naphthalene	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
n-Butyl acetate		25.0		ND	µg/L	1	03/28/2017 18:42	128603
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
n-Heptane		20.0		ND	µg/L	1	03/28/2017 18:42	128603
n-Hexane		20.0		ND	µg/L	1	03/28/2017 18:42	128603
Nitrobenzene	NELAP	50.0		ND	µg/L	1	03/28/2017 18:42	128603
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
o-Xylene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Pentachloroethane	NELAP	20.0		ND	µg/L	1	03/28/2017 18:42	128603
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Propionitrile	NELAP	50.0		ND	µg/L	1	03/28/2017 18:42	128603
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Styrene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	03/28/2017 18:42	128603
Toluene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603
Trichloroethene	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	03/28/2017 18:42	128603
Vinyl acetate	NELAP	10.0		ND	µg/L	1	03/28/2017 18:42	128603

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Lab ID:** 17031648-006

**Client Sample ID:** Trip Blank

**Matrix:** TRIP BLANK

**Collection Date:** 03/27/2017 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	03/28/2017 18:42	128603
Surr: 1,2-Dichloroethane-d4		79.6-118		101.7	%REC	1	03/28/2017 18:42	128603
Surr: 4-Bromofluorobenzene		83.9-115		102.9	%REC	1	03/28/2017 18:42	128603
Surr: Dibromofluoromethane		84.9-113		98.1	%REC	1	03/28/2017 18:42	128603
Surr: Toluene-d8		86.7-112		106.0	%REC	1	03/28/2017 18:42	128603



## Sample Summary

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
17031648-001	CW 4	Groundwater	1	03/27/2017 9:12
17031648-002	CW 5	Groundwater	1	03/27/2017 9:19
17031648-003	CW 6	Groundwater	1	03/27/2017 9:35
17031648-004	CW 9	Groundwater	1	03/27/2017 9:44
17031648-005	CW 5 Dup	Groundwater	1	03/27/2017 9:21
17031648-006	Trip Blank	Trip Blank	1	03/27/2017 12:41

## Dates Report

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

Sample ID	Client Sample ID	Collection Date	Received Date	
			Test Name	Prep Date/Time
17031648-001A	CW 4	03/27/2017 9:12	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 16:31
17031648-002A	CW 5	03/27/2017 9:19	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 16:57
17031648-003A	CW 6	03/27/2017 9:35	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 17:23
17031648-004A	CW 9	03/27/2017 9:44	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 17:49
17031648-005A	CW 5 Dup	03/27/2017 9:21	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 18:16
17031648-006A	Trip Blank	03/27/2017 12:41	03/27/2017 12:41	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		03/28/2017 18:42

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	MBLK	Units	µg/L						Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0		ND							03/28/2017
1,1,1-Trichloroethane		5.0		ND							03/28/2017
1,1,2,2-Tetrachloroethane		5.0		ND							03/28/2017
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND							03/28/2017
1,1,2-Trichloroethane		5.0		ND							03/28/2017
1,1-Dichloro-2-propanone		50.0		ND							03/28/2017
1,1-Dichloroethane		5.0		ND							03/28/2017
1,1-Dichloroethene		5.0		ND							03/28/2017
1,1-Dichloropropene		5.0		ND							03/28/2017
1,2,3-Trichlorobenzene		5.0		ND							03/28/2017
1,2,3-Trichloropropane		5.0		ND							03/28/2017
1,2,3-Trimethylbenzene		5.0		ND							03/28/2017
1,2,4-Trichlorobenzene		5.0		ND							03/28/2017
1,2,4-Trimethylbenzene		5.0		ND							03/28/2017
1,2-Dibromo-3-chloropropane		5.0		ND							03/28/2017
1,2-Dibromoethane		5.0		ND							03/28/2017
1,2-Dichlorobenzene		5.0		ND							03/28/2017
1,2-Dichloroethane		5.0		ND							03/28/2017
1,2-Dichloropropane		5.0		ND							03/28/2017
1,3,5-Trimethylbenzene		5.0		ND							03/28/2017
1,3-Dichlorobenzene		5.0		ND							03/28/2017
1,3-Dichloropropane		5.0		ND							03/28/2017
1,4-Dichlorobenzene		5.0		ND							03/28/2017
1-Chlorobutane		5.0		ND							03/28/2017
2,2-Dichloropropane		5.0		ND							03/28/2017
2-Butanone		25.0		ND							03/28/2017
2-Chloroethyl vinyl ether		20.0		ND							03/28/2017
2-Chlorotoluene		5.0		ND							03/28/2017
2-Hexanone		25.0		ND							03/28/2017
2-Nitropropane		50.0		ND							03/28/2017
4-Chlorotoluene		5.0		ND							03/28/2017
4-Methyl-2-pentanone		25.0		ND							03/28/2017
Acetone		25.0		ND							03/28/2017
Acetonitrile		50.0		ND							03/28/2017
Acrolein		100		ND							03/28/2017
Acrylonitrile		5.0		ND							03/28/2017
Allyl chloride		5.0		ND							03/28/2017
Benzene		2.0		ND							03/28/2017
Bromobenzene		5.0		ND							03/28/2017
Bromochloromethane		5.0		ND							03/28/2017
Bromodichloromethane		5.0		ND							03/28/2017
Bromoform		5.0		ND							03/28/2017
Bromomethane		10.0		ND							03/28/2017
Carbon disulfide		5.0		ND							03/28/2017
Carbon tetrachloride		5.0		ND							03/28/2017
Chlorobenzene		5.0		ND							03/28/2017
Chloroethane		10.0		ND							03/28/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	MBLK	Units	µg/L						Date Analyzed
SampID:			MBLK-T170328A-1								
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
Chloroform		5.0			ND						03/28/2017
Chloromethane		10.0			ND						03/28/2017
Chloroprene		20.0			ND						03/28/2017
cis-1,2-Dichloroethene		5.0			ND						03/28/2017
cis-1,3-Dichloropropene		5.0			ND						03/28/2017
cis-1,4-Dichloro-2-butene		5.0			ND						03/28/2017
Cyclohexanone		50.0			ND						03/28/2017
Dibromochloromethane		5.0			ND						03/28/2017
Dibromomethane		5.0			ND						03/28/2017
Dichlorodifluoromethane		10.0			ND						03/28/2017
Ethyl acetate		10.0			ND						03/28/2017
Ethyl ether		5.0			ND						03/28/2017
Ethyl methacrylate		5.0			ND						03/28/2017
Ethylbenzene		5.0			ND						03/28/2017
Hexachlorobutadiene		5.0			ND						03/28/2017
Hexachloroethane		10.0			ND						03/28/2017
Iodomethane		5.0			ND						03/28/2017
Isopropylbenzene		5.0			ND						03/28/2017
m,p-Xylenes		5.0			ND						03/28/2017
Methacrylonitrile		10.0			ND						03/28/2017
Methyl Methacrylate		5.0			ND						03/28/2017
Methyl tert-butyl ether		2.0			ND						03/28/2017
Methylacrylate		10.0			ND						03/28/2017
Methylene chloride		5.0			ND						03/28/2017
Naphthalene		10.0			ND						03/28/2017
n-Butyl acetate		25.0			ND						03/28/2017
n-Butylbenzene		5.0			ND						03/28/2017
n-Heptane		20.0			ND						03/28/2017
n-Hexane		20.0			ND						03/28/2017
Nitrobenzene		50.0			ND						03/28/2017
n-Propylbenzene		5.0			ND						03/28/2017
o-Xylene		5.0			ND						03/28/2017
Pentachloroethane		20.0			ND						03/28/2017
p-Isopropyltoluene		5.0			ND						03/28/2017
Propionitrile		50.0			ND						03/28/2017
sec-Butylbenzene		5.0			ND						03/28/2017
Styrene		5.0			ND						03/28/2017
tert-Butylbenzene		5.0			ND						03/28/2017
Tetrachloroethene		5.0			ND						03/28/2017
Tetrahydrofuran		20.0			ND						03/28/2017
Toluene		5.0			ND						03/28/2017
trans-1,2-Dichloroethene		5.0			ND						03/28/2017
trans-1,3-Dichloropropene		5.0			ND						03/28/2017
trans-1,4-Dichloro-2-butene		10.0			ND						03/28/2017
Trichloroethene		5.0			ND						03/28/2017
Trichlorofluoromethane		5.0			ND						03/28/2017
Vinyl acetate		10.0			ND						03/28/2017



## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	MBLK	Units	µg/L							Date Analyzed
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
Vinyl chloride		2.0			ND							03/28/2017
Surr: 1,2-Dichloroethane-d4					50.0	50.00		100.0		79.6	118	03/28/2017
Surr: 4-Bromofluorobenzene					50.5	50.00		101.0		83.9	115	03/28/2017
Surr: Dibromofluoromethane					49.3	50.00		98.6		84.9	113	03/28/2017
Surr: Toluene-d8					51.0	50.00		102.1		86.7	112	03/28/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType:	LCSD	Units	µg/L	RPD Limit 40									Date Analyzed
				Sample ID:	LCSD-T170328A-1	Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
1,1,1,2-Tetrachloroethane				5.0		<b>46.9</b>	50.00	0	93.9		45.89		2.24		03/28/2017
1,1,1-Trichloroethane				5.0		<b>49.3</b>	50.00	0	98.7		46.97		4.92		03/28/2017
1,1,2,2-Tetrachloroethane				5.0		<b>48.1</b>	50.00	0	96.3		47.99		0.31		03/28/2017
1,1,2-Trichloro-1,2,2-trifluoroethane				20.0		<b>50.1</b>	50.00	0	100.1		48.91		2.32		03/28/2017
1,1,2-Trichloroethane				5.0		<b>47.2</b>	50.00	0	94.4		46.52		1.43		03/28/2017
1,1-Dichloro-2-propanone				50.0		<b>126</b>	125.0	0	101.0		123.6		2.08		03/28/2017
1,1-Dichloroethane				5.0		<b>48.9</b>	50.00	0	97.7		46.86		4.18		03/28/2017
1,1-Dichloroethene				5.0		<b>51.8</b>	50.00	0	103.5		49.83		3.80		03/28/2017
1,1-Dichloropropene				5.0		<b>47.8</b>	50.00	0	95.5		44.93		6.09		03/28/2017
1,2,3-Trichlorobenzene				5.0		<b>50.4</b>	50.00	0	100.9		49.61		1.66		03/28/2017
1,2,3-Trichloropropane				5.0		<b>47.4</b>	50.00	0	94.8		46.61		1.72		03/28/2017
1,2,3-Trimethylbenzene				5.0		<b>49.6</b>	50.00	0	99.1		49.24		0.67		03/28/2017
1,2,4-Trichlorobenzene				5.0		<b>52.3</b>	50.00	0	104.5		50.96		2.54		03/28/2017
1,2,4-Trimethylbenzene				5.0		<b>49.3</b>	50.00	0	98.7		48.49		1.74		03/28/2017
1,2-Dibromo-3-chloropropane				5.0		<b>51.0</b>	50.00	0	101.9		50.65		0.61		03/28/2017
1,2-Dibromoethane				5.0		<b>47.2</b>	50.00	0	94.4		45.92		2.79		03/28/2017
1,2-Dichlorobenzene				5.0		<b>47.7</b>	50.00	0	95.4		47.17		1.12		03/28/2017
1,2-Dichloroethane				5.0		<b>43.4</b>	50.00	0	86.7		42.66		1.60		03/28/2017
1,2-Dichloropropane				5.0		<b>44.4</b>	50.00	0	88.8		43.70		1.54		03/28/2017
1,3,5-Trimethylbenzene				5.0		<b>50.0</b>	50.00	0	100.0		48.91		2.24		03/28/2017
1,3-Dichlorobenzene				5.0		<b>49.1</b>	50.00	0	98.2		48.62		0.96		03/28/2017
1,3-Dichloropropane				5.0		<b>47.1</b>	50.00	0	94.2		45.98		2.39		03/28/2017
1,4-Dichlorobenzene				5.0		<b>47.8</b>	50.00	0	95.7		47.14		1.49		03/28/2017
1-Chlorobutane				5.0		<b>50.3</b>	50.00	0	100.5		47.43		5.81		03/28/2017
2,2-Dichloropropane				5.0		<b>50.0</b>	50.00	0	99.9		48.43		3.09		03/28/2017
2-Butanone				25.0		<b>119</b>	125.0	0	95.1		115.0		3.33		03/28/2017
2-Chloroethyl vinyl ether				20.0		<b>46.5</b>	50.00	0	92.9		46.02		0.95		03/28/2017
2-Chlorotoluene				5.0		<b>48.8</b>	50.00	0	97.7		48.08		1.55		03/28/2017
2-Hexanone				25.0		<b>122</b>	125.0	0	97.3		118.9		2.30		03/28/2017
2-Nitropropane				50.0		<b>490</b>	500.0	0	98.0		472.9		3.51		03/28/2017
4-Chlorotoluene				5.0		<b>49.2</b>	50.00	0	98.4		47.64		3.18		03/28/2017
4-Methyl-2-pentanone				25.0		<b>122</b>	125.0	0	97.2		121.9		0.30		03/28/2017
Acetone				25.0		<b>103</b>	125.0	0	82.6		105.8		2.52		03/28/2017
Acetonitrile				50.0		<b>493</b>	500.0	0	98.6		474.5		3.83		03/28/2017
Acrolein				100		<b>468</b>	500.0	0	93.5		463.4		0.92		03/28/2017
Acrylonitrile				5.0		<b>52.2</b>	50.00	0	104.3		51.65		0.98		03/28/2017
Allyl chloride				5.0		<b>45.5</b>	50.00	0	91.1		49.42		8.17		03/28/2017
Benzene				2.0		<b>47.6</b>	50.00	0	95.1		45.14		5.24		03/28/2017
Bromobenzene				5.0		<b>48.7</b>	50.00	0	97.3		48.01		1.37		03/28/2017
Bromochloromethane				5.0		<b>44.2</b>	50.00	0	88.5		43.53		1.64		03/28/2017
Bromodichloromethane				5.0		<b>46.5</b>	50.00	0	92.9		45.44		2.24		03/28/2017
Bromoform				5.0		<b>49.0</b>	50.00	0	98.0		48.73		0.51		03/28/2017
Bromomethane				10.0		<b>63.2</b>	50.00	0	126.5		61.25		3.18		03/28/2017
Carbon disulfide				5.0		<b>49.6</b>	50.00	0	99.2		48.01		3.22		03/28/2017
Carbon tetrachloride				5.0		<b>48.2</b>	50.00	0	96.5		45.36		6.15		03/28/2017
Chlorobenzene				5.0		<b>48.7</b>	50.00	0	97.5		47.20		3.19		03/28/2017
Chloroethane				10.0		<b>46.5</b>	50.00	0	93.1		44.09		5.39		03/28/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	LCSD	Units	µg/L	RPD Limit 40									Date Analyzed
				Sample ID:	LCSD-T170328A-1	Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chloroform				5.0		<b>48.1</b>	50.00	0	96.2		46.73		2.91		03/28/2017
Chloromethane				10.0		<b>42.0</b>	50.00	0	84.0		41.00		2.39		03/28/2017
Chloroprene				20.0		<b>49.1</b>	50.00	0	98.2		46.45		5.55		03/28/2017
cis-1,2-Dichloroethene				5.0		<b>48.2</b>	50.00	0	96.4		46.67		3.20		03/28/2017
cis-1,3-Dichloropropene				5.0		<b>45.5</b>	50.00	0	91.1		44.60		2.06		03/28/2017
cis-1,4-Dichloro-2-butene				5.0		<b>53.5</b>	50.00	0	107.0		47.80		11.29		03/28/2017
Cyclohexanone				50.0		<b>52.7</b>	500.0	0	105.4		509.4		3.43		03/28/2017
Dibromochloromethane				5.0		<b>48.2</b>	50.00	0	96.4		47.46		1.57		03/28/2017
Dibromomethane				5.0		<b>45.2</b>	50.00	0	90.4		44.39		1.81		03/28/2017
Dichlorodifluoromethane				10.0		<b>50.3</b>	50.00	0	100.6		47.82		5.04		03/28/2017
Ethyl acetate				10.0		<b>51.1</b>	50.00	0	102.2		51.32		0.39		03/28/2017
Ethyl ether				5.0		<b>46.6</b>	50.00	0	93.1		44.96		3.50		03/28/2017
Ethyl methacrylate				5.0		<b>47.9</b>	50.00	0	95.8		47.85		0.06		03/28/2017
Ethylbenzene				5.0		<b>48.7</b>	50.00	0	97.4		47.51		2.49		03/28/2017
Hexachlorobutadiene				5.0		<b>50.2</b>	50.00	0	100.4		50.38		0.40		03/28/2017
Hexachloroethane				10.0		<b>48.8</b>	50.00	0	97.5		49.07		0.65		03/28/2017
Iodomethane				5.0		<b>40.1</b>	50.00	0	80.2		39.13		2.47		03/28/2017
Isopropylbenzene				5.0		<b>50.7</b>	50.00	0	101.3		49.39		2.54		03/28/2017
m,p-Xylenes				5.0		<b>97.2</b>	100.0	0	97.2		96.07		1.15		03/28/2017
Methacrylonitrile				10.0		<b>47.8</b>	50.00	0	95.6		46.87		1.99		03/28/2017
Methyl Methacrylate				5.0		<b>47.6</b>	50.00	0	95.1		45.32		4.84		03/28/2017
Methyl tert-butyl ether				2.0		<b>47.5</b>	50.00	0	95.1		47.61		0.17		03/28/2017
Methylacrylate				10.0		<b>58.2</b>	50.00	0	116.3		46.64		22.00		03/28/2017
Methylene chloride				5.0		<b>44.8</b>	50.00	0	89.6		43.88		2.05		03/28/2017
Naphthalene				10.0		<b>51.2</b>	50.00	0	102.3		50.53		1.26		03/28/2017
n-Butyl acetate				25.0		<b>47.6</b>	50.00	0	95.1		47.50		0.13		03/28/2017
n-Butylbenzene				5.0		<b>49.9</b>	50.00	0	99.8		48.06		3.80		03/28/2017
n-Heptane				20.0		<b>53.5</b>	50.00	0	107.0		50.29		6.19		03/28/2017
n-Hexane				20.0		<b>54.8</b>	50.00	0	109.7		50.91		7.43		03/28/2017
Nitrobenzene				50.0		<b>54.5</b>	500.0	0	109.1		524.0		3.98		03/28/2017
n-Propylbenzene				5.0		<b>51.3</b>	50.00	0	102.6		49.34		3.90		03/28/2017
o-Xylene				5.0		<b>49.3</b>	50.00	0	98.6		47.35		4.04		03/28/2017
Pentachloroethane				20.0		<b>50.8</b>	50.00	0	101.5		49.19		3.14		03/28/2017
p-Isopropyltoluene				5.0		<b>51.7</b>	50.00	0	103.4		50.60		2.13		03/28/2017
Propionitrile				50.0		<b>50.3</b>	500.0	0	100.6		489.2		2.75		03/28/2017
sec-Butylbenzene				5.0		<b>51.7</b>	50.00	0	103.5		49.45		4.53		03/28/2017
Styrene				5.0		<b>48.9</b>	50.00	0	97.8		48.05		1.77		03/28/2017
tert-Butylbenzene				5.0		<b>50.3</b>	50.00	0	100.7		49.23		2.21		03/28/2017
Tetrachloroethene				5.0		<b>49.0</b>	50.00	0	98.1		48.11		1.93		03/28/2017
Tetrahydrofuran				20.0		<b>46.0</b>	50.00	0	92.0		44.97		2.26		03/28/2017
Toluene				5.0		<b>48.8</b>	50.00	0	97.6		47.84		1.95		03/28/2017
trans-1,2-Dichloroethene				5.0		<b>48.0</b>	50.00	0	96.1		46.86		2.47		03/28/2017
trans-1,3-Dichloropropene				5.0		<b>48.5</b>	50.00	0	97.1		48.07		0.97		03/28/2017
trans-1,4-Dichloro-2-butene				10.0		<b>49.8</b>	50.00	0	99.7		48.18		3.41		03/28/2017
Trichloroethene				5.0		<b>47.1</b>	50.00	0	94.1		46.41		1.41		03/28/2017
Trichlorofluoromethane				5.0		<b>48.5</b>	50.00	0	97.0		44.78		8.02		03/28/2017
Vinyl acetate				10.0		<b>46.7</b>	50.00	0	93.3		45.01		3.60		03/28/2017



## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	LCSD	Units	µg/L	RPD Limit 40						
SampID: LCSD-T170328A-1								Date Analyzed				
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Vinyl chloride		2.0		45.1	50.00	0	90.1		43.44		3.68	03/28/2017
Surr: 1,2-Dichloroethane-d4				49.4	50.00		98.8					03/28/2017
Surr: 4-Bromofluorobenzene				49.5	50.00		99.1					03/28/2017
Surr: Dibromofluoromethane				49.6	50.00		99.3					03/28/2017
Surr: Toluene-d8				51.0	50.00		101.9					03/28/2017

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**Report Date:** 31-Mar-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	LCS	Units	µg/L						Date Analyzed	
SampID: LCS-T170328A-1												
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0			<b>45.9</b>	50.00	0	91.8		80.7	119	03/28/2017
1,1,1-Trichloroethane		5.0			<b>47.0</b>	50.00	0	93.9		75.8	121	03/28/2017
1,1,2,2-Tetrachloroethane		5.0			<b>48.0</b>	50.00	0	96.0		75.5	117	03/28/2017
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0			<b>48.9</b>	50.00	0	97.8		71.9	122	03/28/2017
1,1,2-Trichloroethane		5.0			<b>46.5</b>	50.00	0	93.0		80.8	113	03/28/2017
1,1-Dichloro-2-propanone		50.0			<b>124</b>	125.0	0	98.9		53.1	132	03/28/2017
1,1-Dichloroethane		5.0			<b>46.9</b>	50.00	0	93.7		76.2	121	03/28/2017
1,1-Dichloroethene		5.0			<b>49.8</b>	50.00	0	99.7		73	122	03/28/2017
1,1-Dichloropropene		5.0			<b>44.9</b>	50.00	0	89.9		78.1	123	03/28/2017
1,2,3-Trichlorobenzene		5.0			<b>49.6</b>	50.00	0	99.2		79.3	120	03/28/2017
1,2,3-Trichloropropane		5.0			<b>46.6</b>	50.00	0	93.2		75.4	112	03/28/2017
1,2,3-Trimethylbenzene		5.0			<b>49.2</b>	50.00	0	98.5		77.8	118	03/28/2017
1,2,4-Trichlorobenzene		5.0			<b>51.0</b>	50.00	0	101.9		77.1	119	03/28/2017
1,2,4-Trimethylbenzene		5.0			<b>48.5</b>	50.00	0	97.0		79.4	119	03/28/2017
1,2-Dibromo-3-chloropropane		5.0			<b>50.6</b>	50.00	0	101.3		61.2	122	03/28/2017
1,2-Dibromoethane		5.0			<b>45.9</b>	50.00	0	91.8		80	114	03/28/2017
1,2-Dichlorobenzene		5.0			<b>47.2</b>	50.00	0	94.3		80.5	113	03/28/2017
1,2-Dichloroethane		5.0			<b>42.7</b>	50.00	0	85.3		75.6	118	03/28/2017
1,2-Dichloropropane		5.0			<b>43.7</b>	50.00	0	87.4		78.6	121	03/28/2017
1,3,5-Trimethylbenzene		5.0			<b>48.9</b>	50.00	0	97.8		78.6	119	03/28/2017
1,3-Dichlorobenzene		5.0			<b>48.6</b>	50.00	0	97.2		81.9	115	03/28/2017
1,3-Dichloropropane		5.0			<b>46.0</b>	50.00	0	92.0		78.9	113	03/28/2017
1,4-Dichlorobenzene		5.0			<b>47.1</b>	50.00	0	94.3		80.8	113	03/28/2017
1-Chlorobutane		5.0			<b>47.4</b>	50.00	0	94.9		75.3	118	03/28/2017
2,2-Dichloropropane		5.0			<b>48.4</b>	50.00	0	96.9		64.9	139	03/28/2017
2-Butanone		25.0			<b>115</b>	125.0	0	92.0		66.3	122	03/28/2017
2-Chloroethyl vinyl ether		20.0			<b>46.0</b>	50.00	0	92.0		54.6	162	03/28/2017
2-Chlorotoluene		5.0			<b>48.1</b>	50.00	0	96.2		78	117	03/28/2017
2-Hexanone		25.0			<b>119</b>	125.0	0	95.1		68.7	122	03/28/2017
2-Nitropropane		50.0			<b>473</b>	500.0	0	94.6		60.2	137	03/28/2017
4-Chlorotoluene		5.0			<b>47.6</b>	50.00	0	95.3		78.2	118	03/28/2017
4-Methyl-2-pentanone		25.0			<b>122</b>	125.0	0	97.5		74.3	120	03/28/2017
Acetone		25.0			<b>106</b>	125.0	0	84.7		43.4	125	03/28/2017
Acetonitrile		50.0			<b>474</b>	500.0	0	94.9		59	134	03/28/2017
Acrolein		100			<b>463</b>	500.0	0	92.7		10	200	03/28/2017
Acrylonitrile		5.0			<b>51.6</b>	50.00	0	103.3		76.7	121	03/28/2017
Allyl chloride		5.0			<b>49.4</b>	50.00	0	98.8		71.4	133	03/28/2017
Benzene		2.0			<b>45.1</b>	50.00	0	90.3		77.8	120	03/28/2017
Bromobenzene		5.0			<b>48.0</b>	50.00	0	96.0		75	115	03/28/2017
Bromochloromethane		5.0			<b>43.5</b>	50.00	0	87.1		71	120	03/28/2017
Bromodichloromethane		5.0			<b>45.4</b>	50.00	0	90.9		77.1	122	03/28/2017
Bromoform		5.0			<b>48.7</b>	50.00	0	97.5		74.6	126	03/28/2017
Bromomethane		10.0			<b>61.2</b>	50.00	0	122.5		4.49	200	03/28/2017
Carbon disulfide		5.0			<b>48.0</b>	50.00	0	96.0		68.8	118	03/28/2017
Carbon tetrachloride		5.0			<b>45.4</b>	50.00	0	90.7		70.5	128	03/28/2017
Chlorobenzene		5.0			<b>47.2</b>	50.00	0	94.4		82.6	113	03/28/2017
Chloroethane		10.0			<b>44.1</b>	50.00	0	88.2		46.5	151	03/28/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 128603	SampType: LCS	Units µg/L								
Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloroform	5.0		<b>46.7</b>	50.00	0	93.5		75.8	114	03/28/2017
Chloromethane	10.0		<b>41.0</b>	50.00	0	82.0		34.2	126	03/28/2017
Chloroprene	20.0		<b>46.4</b>	50.00	0	92.9		72	116	03/28/2017
cis-1,2-Dichloroethene	5.0		<b>46.7</b>	50.00	0	93.3		77.3	118	03/28/2017
cis-1,3-Dichloropropene	5.0		<b>44.6</b>	50.00	0	89.2		77.7	125	03/28/2017
cis-1,4-Dichloro-2-butene	5.0		<b>47.8</b>	50.00	0	95.6		68.5	123	03/28/2017
Cyclohexanone	50.0		<b>509</b>	500.0	0	101.9		34.6	140	03/28/2017
Dibromochloromethane	5.0		<b>47.5</b>	50.00	0	94.9		77.6	121	03/28/2017
Dibromomethane	5.0		<b>44.4</b>	50.00	0	88.8		76.9	118	03/28/2017
Dichlorodifluoromethane	10.0		<b>47.8</b>	50.00	0	95.6		2.97	157	03/28/2017
Ethyl acetate	10.0		<b>51.3</b>	50.00	0	102.6		71.2	118	03/28/2017
Ethyl ether	5.0		<b>45.0</b>	50.00	0	89.9		73.8	116	03/28/2017
Ethyl methacrylate	5.0		<b>47.8</b>	50.00	0	95.7		77.7	119	03/28/2017
Ethylbenzene	5.0		<b>47.5</b>	50.00	0	95.0		81.8	117	03/28/2017
Hexachlorobutadiene	5.0		<b>50.4</b>	50.00	0	100.8		71.8	131	03/28/2017
Hexachloroethane	10.0		<b>49.1</b>	50.00	0	98.1		67.5	125	03/28/2017
Iodomethane	5.0		<b>39.1</b>	50.00	0	78.3		13.8	169	03/28/2017
Isopropylbenzene	5.0		<b>49.4</b>	50.00	0	98.8		81.3	120	03/28/2017
m,p-Xylenes	5.0		<b>96.1</b>	100.0	0	96.1		82.7	118	03/28/2017
Methacrylonitrile	10.0		<b>46.9</b>	50.00	0	93.7		76.8	120	03/28/2017
Methyl Methacrylate	5.0		<b>45.3</b>	50.00	0	90.6		70.6	122	03/28/2017
Methyl tert-butyl ether	2.0		<b>47.6</b>	50.00	0	95.2		73.1	120	03/28/2017
Methylacrylate	10.0		<b>46.6</b>	50.00	0	93.3		76.4	127	03/28/2017
Methylene chloride	5.0		<b>43.9</b>	50.00	0	87.8		71	114	03/28/2017
Naphthalene	10.0		<b>50.5</b>	50.00	0	101.1		74.1	125	03/28/2017
n-Butyl acetate	25.0		<b>47.5</b>	50.00	0	95.0		73.4	118	03/28/2017
n-Butylbenzene	5.0		<b>48.1</b>	50.00	0	96.1		75.6	122	03/28/2017
n-Heptane	20.0		<b>50.3</b>	50.00	0	100.6		66.4	128	03/28/2017
n-Hexane	20.0		<b>50.9</b>	50.00	0	101.8		69.3	122	03/28/2017
Nitrobenzene	50.0		<b>524</b>	500.0	0	104.8		26	154	03/28/2017
n-Propylbenzene	5.0		<b>49.3</b>	50.00	0	98.7		78.7	119	03/28/2017
o-Xylene	5.0		<b>47.4</b>	50.00	0	94.7		80.1	118	03/28/2017
Pentachloroethane	20.0		<b>49.2</b>	50.00	0	98.4		70.7	127	03/28/2017
p-Isopropyltoluene	5.0		<b>50.6</b>	50.00	0	101.2		80.2	122	03/28/2017
Propionitrile	50.0		<b>489</b>	500.0	0	97.8		71.3	127	03/28/2017
sec-Butylbenzene	5.0		<b>49.4</b>	50.00	0	98.9		77.9	121	03/28/2017
Styrene	5.0		<b>48.0</b>	50.00	0	96.1		81.2	120	03/28/2017
tert-Butylbenzene	5.0		<b>49.2</b>	50.00	0	98.5		75.4	119	03/28/2017
Tetrachloroethene	5.0		<b>48.1</b>	50.00	0	96.2		75.5	119	03/28/2017
Tetrahydrofuran	20.0		<b>45.0</b>	50.00	0	89.9		65.9	120	03/28/2017
Toluene	5.0		<b>47.8</b>	50.00	0	95.7		82.2	113	03/28/2017
trans-1,2-Dichloroethene	5.0		<b>46.9</b>	50.00	0	93.7		77.5	121	03/28/2017
trans-1,3-Dichloropropene	5.0		<b>48.1</b>	50.00	0	96.1		79.8	118	03/28/2017
trans-1,4-Dichloro-2-butene	10.0		<b>48.2</b>	50.00	0	96.4		63.1	126	03/28/2017
Trichloroethene	5.0		<b>46.4</b>	50.00	0	92.8		75.7	123	03/28/2017
Trichlorofluoromethane	5.0		<b>44.8</b>	50.00	0	89.6		57.2	142	03/28/2017
Vinyl acetate	10.0		<b>45.0</b>	50.00	0	90.0		73.9	128	03/28/2017



## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	128603	SampType	LCS	Units	µg/L							Date Analyzed	
SampID:	LCS-T170328A-1												
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC		Low Limit	High Limit	
Vinyl chloride		2.0			<b>43.4</b>	50.00	0	86.9		45.8	138	03/28/2017	
Surr: 1,2-Dichloroethane-d4					<b>49.3</b>	50.00		98.5		79.6	118	03/28/2017	
Surr: 4-Bromofluorobenzene					<b>49.4</b>	50.00		98.8		83.9	115	03/28/2017	
Surr: Dibromofluoromethane					<b>49.7</b>	50.00		99.4		84.9	113	03/28/2017	
Surr: Toluene-d8					<b>50.5</b>	50.00		101.0		86.7	112	03/28/2017	

## Receiving Check List

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 17031648

**Client Project:** Huster Road 120-678

**Report Date:** 31-Mar-17

**Carrier:** John Galbraith

**Received By:** AMD

**Completed by:**

**On:**

27-Mar-17



Amber M. Dilallo

**Reviewed by:**

**On:**

27-Mar-17



Elizabeth A. Hurley

**Pages to follow:** Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <b>15.02</b>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water – at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

## **CHAIN OF CUSTODY**

pg. 1 of 1 Work order # 170316e48

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

Client: Address: City / State / Zip Contact: E-Mail:	Civil & Environmental Consultants 4848 Park 370 Blvd. Hazelwood, MO 63042 Dave Pluhar <u>dpluhar@cecin.com</u>	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <span style="float: right;">15.02 °C</span> Preserved in: <input type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD <span style="float: right;"><u>FOR LAB USE ONLY</u></span> Lab Notes OK Headspace. TA 312-1/12																		
Are these samples known to be involved in litigation? If yes, a surcharge will apply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Client Comments:																		
Project Name/Number	Sample Collector's Name	MATRIX	INDICATE ANALYSIS REQUESTED																	
Huster Road 120-678	JG/JM	VOC 8260																		
Results Requested		Billing Instructions	# and Type of Containers																	
<input type="checkbox"/> Standard	<input type="checkbox"/> 1-2 Day (100% Surcharge)		UNPRES	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER
<input type="checkbox"/> Other	<input type="checkbox"/> 3 Day (50% Surcharge)		HNO3	NaOH	H2SO4	HCl	MeOH	NaHSO4	NaAc	AlCl3	CaCO3	FeCl3	LiCl	NaCl	Na2CO3	Na3PO4	NaOH	NaCl	Na2CO3	Na3PO4
Lab Use Only	Sample Identification	Date/Time Sampled																		
MO316048-001	CW 4	3/27/17 0412																		
002	CW 5	3/27/17 0919																		
003	CW 6	3/27/17 0935																		
004	CW 9	3/27/17 0944																		
005	CW 5 Dup	3/27/17 0921																		
006	Tsp Blank																			
Relinquished By		Date/Time	Received By												Date/Time					
John Galbraith		3/27/17 1241	Gabe Siscalo												3/27/17 1241					

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 34750



18717